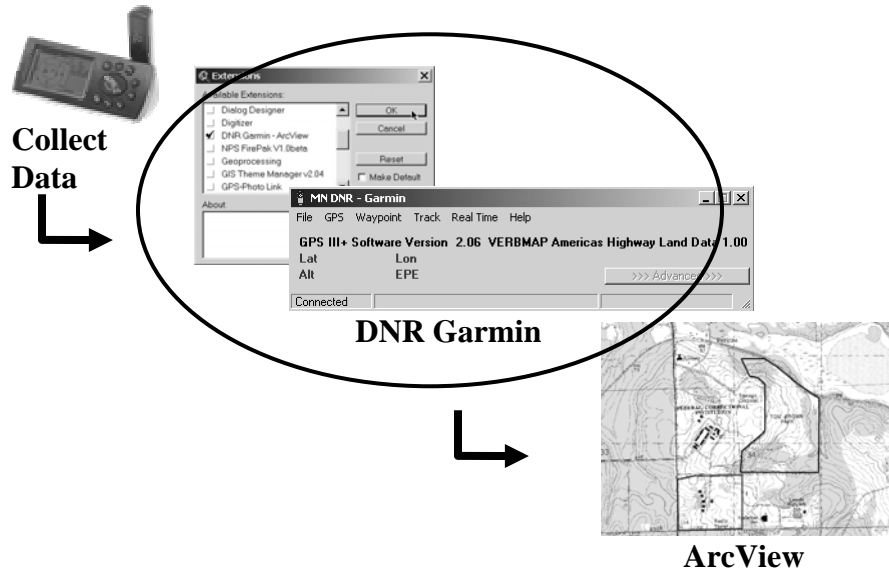


DNR Garmin Extension in ArcView: Set up



Objectives

- Getting Connected
 - Open ArcView a new project
 - Set View Properties
 - Load the DNR Extension
 - Opening DNR Garmin Inside of ArcView
- Overview Menu Options
- Help Review

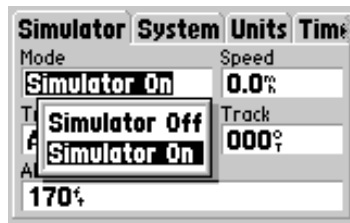
Getting Connected - Check

- Turn on Garmin GPS
- For best results, the Garmin GPS should be connected to the computer via a serial cable and turned on before loading the DNR Garmin extension.



Getting Connected - Check

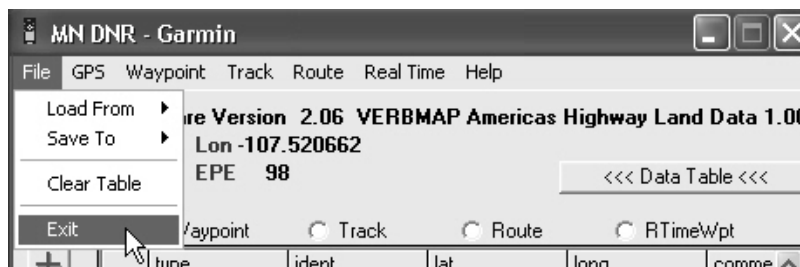
- Simulator Mode to On



TIP Garmin GPS returns to Simulator Off during power up

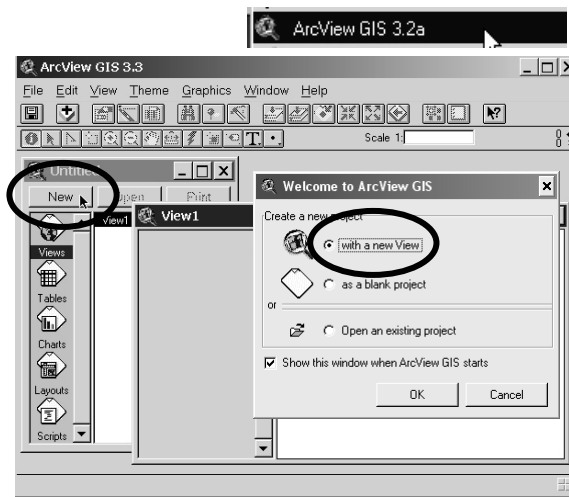
Getting Connected - Check

- Close VB Program if Open (DNRGarmin operating outside of ArcView)



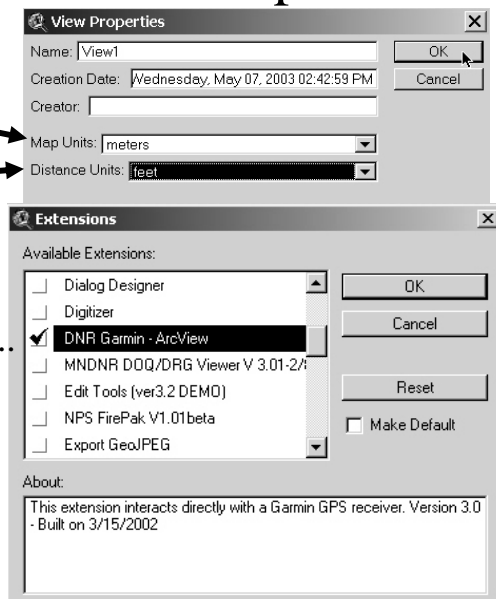
Getting Connected - Step 1

- Start ArcView
 - Start Button| Programs | ESRI | ArcView3 | ArcView
 - Open an Arc View
 - New View
- Or...
- “with a new View” when dialog box inquires



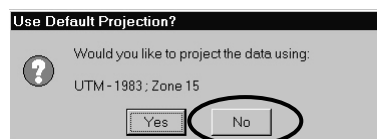
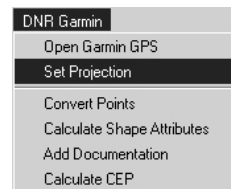
Getting Connected - Step 1

- Set View | Properties
 - Map Units: meters
 - Distance Units: feet
- Load DNR Garmin Extension
 - Select File | Extensions...
 - Scroll to Select
“DNR Garmin - ArcView”
 - Press OK



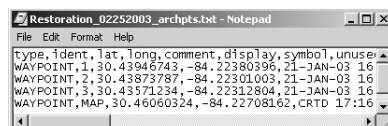
Getting Connected - Step 2

- Set Projection
 - Since some of you may already have loaded DNR Garmin, we need to ensure the Projection is set
 - Select DNR Garmin | Set Projection
 - This may not be the correct projection and datum, Press NO
 - Set parameters to the Class Instructions



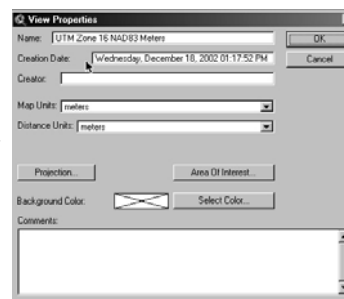
Projections - What's the big deal anyway!

- To GIS personnel - this is a big deal
- Intimately linked to the data collection from the field
- Ask how the GIS personnel prefers the data
- All raw GPS data is expressed in Lat/Long
Decimal Degrees - WGS84 Datum
 - Setting Garmin to Garmin Protocol ensures data arriving in downloaded as DD WGS84



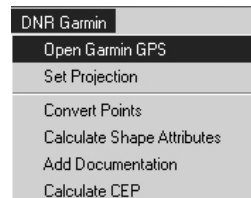
Projections - What's the big deal anyway!

- When GPS data is downloaded to ArcView the data is projected “on the fly” using the projection you define using:
 - DNRGarmin | Set Projection Dialog box
 - Information is stored in a file and can be reset at any time
- This assumes the base data is projected and is being displayed in an unprojected View.



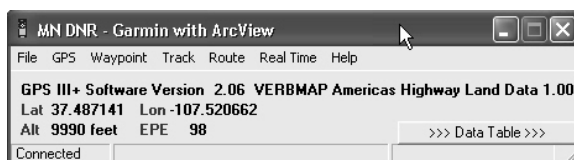
Getting Connected - Step 3

- Open DNR Garmin - Select DNR Garmin | Open Garmin GPS



- If GPS is turned on you will see this

- Congratulations!

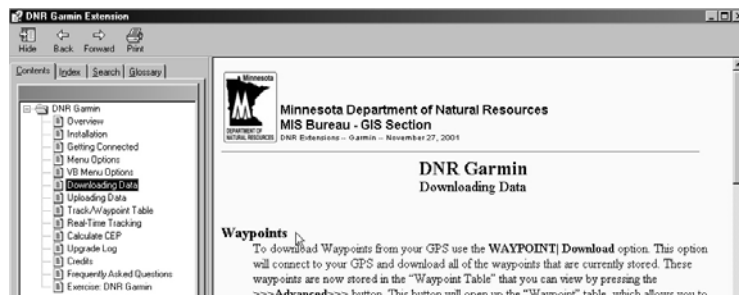
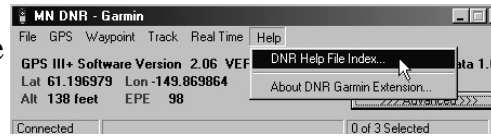


Overview DNR Garmin Menu

- OPEN Garmin GPS: Starts the DNR Garmin Program
- Set Projection: Sets the Projection for Incoming Data
- Convert Points: Convert Point shapefile to line or polygon
- Calculate Shape Attributes: Calculates attributes of shapefile (GIS units) and adds them to the attribute table.
- Add Documentation
- Calculate CEP: Calculates Circular Error Probability for the Selected Point Theme

DNR Garmin Help

- Open DNR Help
- Select Help | DNR Help File Index
- Select “Downloading Data” from the Contents Tab
- Close Help



Summary

- Connected successfully to the GPS
- Used DNR Garmin Program (extension)
 - INSIDE of ArcView
- Reviewed basic capabilities in DNR Garmin Menu
- Launched DNR Garmin Help